

## CLAIMS

What is claimed is:

1. A non-toxic, non-toxicogenic, non-pathogenic recombinant *Fusarium* host cell of the section Discolor or a teleomorph or synonym thereof, comprising a nucleic acid sequence encoding a heterologous protein operably linked to a promoter.
2. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium bactridioides* cell.
3. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium cerealis* cell.
4. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium crookwellense* cell.
5. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium culmorum* cell.
6. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium graminearum* cell.
7. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium graminum* cell.
8. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium heterosporum* cell.
9. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium negundi* cell.
10. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium reticulatum* cell.
11. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium roseum* cell.
12. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium sambucinum* cell.

13. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium sarcochroum* cell.
14. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium sulphureum* cell.
15. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium trichothecioides* cell.
16. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium venenatum* cell.
17. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium venenatum* Nirenberg sp. nov cell.
18. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium toruloseum* cell.
19. The host cell of claim 1 in which the *Fusarium* cell has the identifying characteristics of ATCC 20334.
20. A method for producing a heterologous protein which comprises  
(a) culturing a non-toxic, non-toxigenic, non-pathogenic recombinant *Fusarium* host cell according to <sup>claim 20</sup> ~~claim 1~~; and  
(b) isolating the protein.

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